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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-07-05** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	08-04-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	546	670	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	564	685	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	575	690	20.0%	Satisfactory	Satisfactory

Note:

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-04-07-05** **Date: 11-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.

Customer's Reference : BBMP/EE/BTP/WO/14/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-04-17

Sample ID No : 2017-04-07-05 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 07/04/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.48	250.51	2.856	17781	387.5	21.8	20.3	25.3
2	Cover Slab-2	150.48	250.51	2.895	17781	384.1	21.6	20.1	25.1
3	Cover Slab-3	150.51	250.49	2.852	17788	388.9	21.9	20.3	25.4

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-07-05** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-04-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	286.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-07-05** **Date: 06-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-04-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-07-05** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	256	256	1.7	98.3	90-100
3	20 mm	5533	5789	38.6	61.4	30-70
4	10 mm	4665	10454	69.7	30.3	10-35
5	4.75 mm	4233	14687	97.9	2.1	0-5
6	Pan	313	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-07-05** **Date: 10-04-17**

Sample ID No : 2017-04-07-05 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.21	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-07-05** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-07-05** **Date: 10-04-17**

Sample ID No : 2017-04-07-05 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-07-05** **Date: 10-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.

Customer's Reference : BBMP/EE/BTP/WO/14/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-04-17

Sample ID No : 2017-04-07-05 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 07-04-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	167	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	187	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	177	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	148	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-07-05** **Date: 10-04-17**

Sample ID No : 2017-04-07-05 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-04-07-05** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-05 /05
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-04-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	152	202	12343	24.850	2013.3	2022.7	Not less than 1800Kg/m^3
2	401	151	203	12292	24.780	2016.0		
3	402	150	201	12120	24.710	2038.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.150	24.280	3.58	4.05	Shall not be more than 10% by mass
2	25.680	24.710	3.93		
3	25.430	24.300	4.65		

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Lab ID : **CP-2017-04-07-05** **Date: 10-04-17**

Sample ID No : **2017-04-07-05**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	150	203	
3	400	152	201	
4	401	150	201	
5	402	149	203	
6	405	150	201	
7	403	151	203	
8	401	152	200	
9	403	150	198	
10	401	150	203	
11	402	151	200	
12	401	152	201	
13	403	150	203	
14	402	150	201	
15	400	151	203	
16	403	150	201	
17	402	149	202	
18	401	151	203	
19	402	150	201	
20	402	152	200	
Average of 20	**402**	**151**	**202**	

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Lab ID : **CP-2017-04-07-05** **Date: 10-04-17**

Sample ID No : 2017-04-07-05

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	151	60702	252.8	4.2	4.2
2	401	150	60150	271.9	4.5	
3	400	152	60800	249.7	4.1	
4	401	150	60150	258.4	4.3	
5	402	149	59898	272.9	4.6	
6	405	150	60750	250.4	4.1	
7	403	151	60853	251.6	4.1	
8	401	152	60952	249.6	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Certificate No.: T- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-15-06** **Date: 17/04/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub-Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.

Customer's Reference : BBMP/EE/BTP/WO/14/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-06 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	10/04/2017	17/04/2017	150.32 X 150.35 X 150.32	22601	8.133	386.5	17.1	16.8
2	M20 Concrete	M20	10/04/2017	17/04/2017	150.30 X 150.39 X 150.31	22604	8.156	382.0	16.9	
3	M20 Concrete	M20	10/04/2017	17/04/2017	150.34 X 150.32 X 150.30	22599	8.142	372.9	16.5	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-15-06** **Date: 08/05/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.

Customer's Reference : BBMP/EE/BTP/WO/14/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-06 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	10/04/2017	08/05/2017	150.33 X 150.30 X 150.27	22595	8.402	508.4	22.5	23.2
2	M20 Concrete	M20	10/04/2017	08/05/2017	150.31 X 150.29 X 150.30	22590	8.413	524.1	23.2	
3	M20 Concrete	M20	10/04/2017	08/05/2017	150.35 X 150.20 X 150.27	22583	8.378	537.5	23.8	

Note:

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Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/04/2017

Lab ID	:	**CP-2017-04-13-06**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-17
Sample ID No	:	2017-04-13-06 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/04/2017	18/04/2017	150.32 X 150.38 X 150.37	22605	8.433	273.5	12.1	11.8
2	PCC	M15	11/04/2017	18/04/2017	150.28 X 150.25 X 150.31	22580	8.376	268.7	11.9	
3	PCC	M15	11/04/2017	18/04/2017	150.33 X 150.38 X 150.39	22607	8.445	260.0	11.5	

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Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-06** **Date: 09/05/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works, construction of damaged culverts and drain in ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Dhananjaya M.L, 6/1, 2nd Cross,R.K, Street Sheshadripuram, Bangalore-560 020.

Customer's Reference : BBMP/EE/BTP/WO/14/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-17

Sample ID No : 2017-04-13-06 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/04/2017	09/05/2017	150.21 X 150.24 X 150.27	22568	8.332	388.2	17.2	17.2
2	PCC	M15	11/04/2017	09/05/2017	150.28 X 150.29 X 150.22	22586	8.355	386.2	17.1	
3	PCC	M15	11/04/2017	09/05/2017	150.28 X 150.20 X 150.25	22572	8.343	390.5	17.3	

Note:

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****End of Report****